

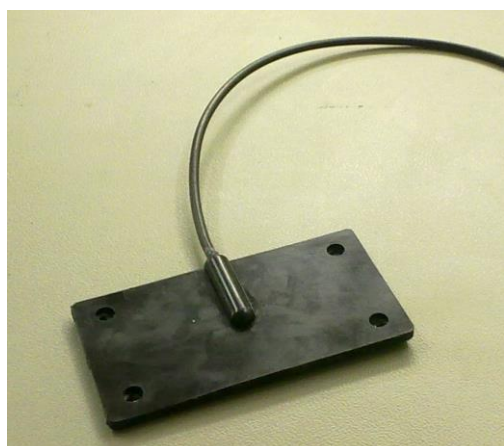
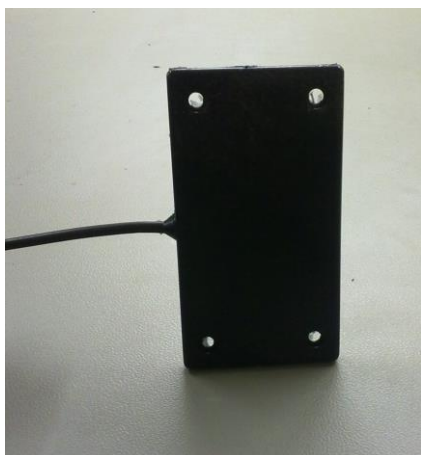
# Dual-Band GSM/UMTS High-Power Antenna

820 – 2200 MHz

VERSION: 1.5

Product Code: OMNI-A0152

## SPECIFICATIONS:



<b>Electrical:</b>	
Frequency range	820 – 960 MHz; 1700 – 2200 MHz
Gain	0 dBi typical (in band) <i>see curve</i>
Azimuth pattern	Omni, 3 dB ripple
Elevation pattern	± 30
Polarisation	Vertical
Nominal impedance	50 Ω
VSWR	< 2.5:1 (at the antenna excluding cable effect)
Power handling	50 W CW
Connector	SMA male
Feed cable	7 m of LMR 195
<b>Mechanical:</b>	
Dimensions (w x l)	71 mm x 131 mm
Total mass	< 105 g
Colour	Black, others on request
Maximum bending radius	100 mm
<b>Environmental: designed to meet the following specifications</b>	
Temperature range	Storage: -40 °C to +85 °C. Operation -40 °C to +55 °C
Immersion	MIL-STD-810E method 512.3 procedure I
Shock and vibration	MIL-STD-810D 514.3 and 514.4: vibration category 20, shock 40 g max peak
Exposed materials	Polyurethane

## PRODUCT FEATURES:

- Wideband
- Omni-directional azimuth pattern
- High-power handling
- Rugged design
- Waterproof

## PRODUCT OVERVIEW:

This dual-band high-power omni-directional antenna is for interception of wireless communications. It is designed to be mounted on vehicle bumpers as a covert high-power antenna. The antenna is flexible with a maximum bending radius of 100 mm.

The array covers the GSM900 GSM1800 and UMTS. The antenna comes with a 7 m LMR195 cable.

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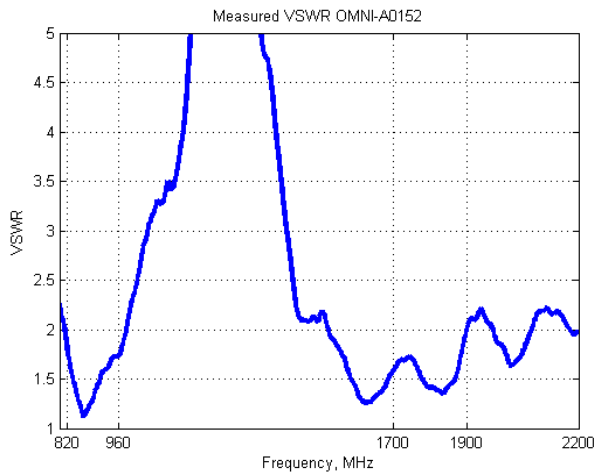
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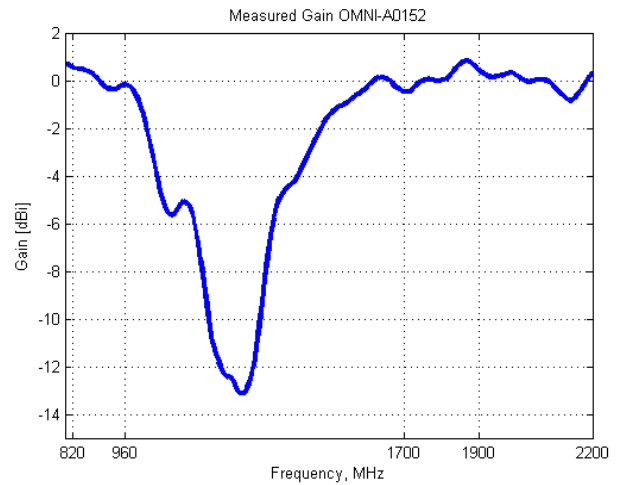
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## Measured VSWR and gain graphs:

### Typical VSWR:



### GAIN:



## Simulated radiation patterns:

### Azimuth patterns:

